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Vol. 4, No. 2.

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BOOKS FOR PLANT SCIENTISTS

PLANTS AND PLANT SCIENCE IN LATIN AMERICA, edited by Frans Verdoorn. Chronica Botanica, 1945. 384p. 453 V58

"The aim of this collection of nearly a hundred accounts of the vegetation and plant resources (with information on agriculture, forestry, phytopathology, etc.) of the countries of Central and South America is to give the agronomist, botanist, forester and phytopathologist, wherever he may be located, information which he may need when starting work on the wild or cultivated plants of Latin America. It is hoped that it may be still more useful for those who plan to go to Latin America to collect or to conduct research. The collection endeavors to give some information concerning the present status of and the future possibilities and needs for research in the chief branches of the pure and applied sciences in Latin America. In addition to data in his own field, the specialist will find much useful and stimulating information on vegetational and agronomic problems in general, on the organization of research, lists of books that he may consult, addresses of institutions and societies in the territory in which he is interested and which he may profitably contact, etc.

"Special features are the plates, often reproduced from classical publications, and the extensive introductory chapters by Popenoe (Problems of Tropical American Agriculture), Johnston and Smith (Vegetation Types), Fosberg (Economic Botany), and Pennell (History). There is also a special supplement by Krug who reports in detail on plant breeding in C. and S. America."

Henry A. Wallace said of the book, "Those who are interested both in Latin America and biology or agriculture, have long been looking for a compilation like Plants and Plant Science in Latin America. It will prove invaluable to many types of research workers as well as to educators and practical men."

PLANTS AND VITAMINS, by W. H. Schopfer and N. L. Noecker. Chronica Botanica, 1943. 293p. 463.34 Sch6
Annotation in September 1944 Newsletter.

A SHORT HISTORY OF THE PLANT SCIENCES, by H. S. Reed. Chronica Botanica, 1942. 320p. 463 R25S

Dr. Reed starts with the development of botany in a very early era and discusses the achievements of the races at the dawn of history and subsequently. The development of the biological sciences in the years when differentiation and specialization grew up constitutes the subject matter of the latter part of the book. Here Dr. Reed shows "the extraordinary development of the biological sciences in the years since the publication of The Origin of the Species and the attempts at a better interpretation of natural phenomena which followed that epoch making book." There are chapters on morphology, cytology, the water economy of plants, the fixation of carbon by plants, the assimilation of nitrogen,

plant nutrition, mycology, plant pathology--from the historical angle.

SELECTED BOOKS AND BULLETINS

Agricultural Finance

THE PRODUCTION CREDIT SYSTEM FOR FARMERS, by E. L. Butz. Brookings Institution, 1944. 104p. 284.2 B98

"It is the purpose of this study (1) to examine the agricultural financing being done by the Production Credit System in relation to the job which Congress intended it to do, (2) to bring together and analyze available information concerning the current financial position and operating efficiency of the system, (3) to analyze the amount and effect of the federal subsidy now given, and (4) to suggest a broad policy and course of action for the future. Sufficient operating data have now been accumulated to make it possible to appraise the work of the Production Credit System and to determine sound lines of permanent policy."

Agriculture

"Agricultural and Industrial Opportunities for the South," talk by Mordecai Ezekiel, USDA, Before Southern Regional Council, Inc., April 11, 1945. 10p. 1.9 Ag8638

"Agriculture's Stake in Full Employment," address of O. V. Wells, BAE, to the Middlesex County Extension Conference on Conditions and Adjustments We Must Make After the War, Feb. 8, 1945. 9p. 1.941 F3W46

Agronomy

"Forage Production of Winter Small Grain Varieties and Annual Rye Grass and Effect of Clipping Upon Grain Yields: Three Years' Results, 1942-3 to 1944-5," by H. W. Staten and E. H. Muncrief. Okla. Agr. Expt. Sta. Mimeo. Cir. 143. May 1945. 7p. 100 Ok4M

"Grazing Trials: Winter Small Grains and Ryegrass--Palatability Comparisons of Six Crops, Fertilized and Unfertilized," by H. W. Staten. Okla. Agr. Expt. Sta. Mimeo. Cir. 142. May 1945. 12p. 100 Ok4M
The six crops are: rye, oats, barley, soft wheat, hard wheat, ryegrass.

"Relationship Between Organic Matter and Productivity." SCS, Milwaukee, Wis. 3p. March 1945. 1.9605 T22 27

"Report of Varieties of Cotton Tested in the Brazos River Valley, 1940-1944." Tex. Agr. Expt. Sta. Progress Report 937. February 1945. 2p. 100 T31P

Cooperatives

"Agricultural Cooperatives in the Postwar Period." USDA Inter-bureau Committee on Postwar Programs, July 1945. 41p.

"Organizing Honey Marketing Cooperatives in Wartime," by H. M. Bain. Farm Credit Admin. Misc. Report No. 79. March 1945. 28p. 166.3 M68

We have a packet on COOPERATIVES. Would you like to see it?

ARE YOU MAKING YOUR REQUESTS ON FORMS AD-245?

Farm Planning

"Farm and Ranch Planner's Guide." SCS, Region 7, Portland, Ore. August 1944.
1.9609 F22

Fertilizers

"Cottonseed Meal as a Fertilizer for Cotton." New Mexico Agr. Expt. Sta. Press
Bul. 1006. June 1945. 2p. 100 N465

"Use of Commercial Fertilizers in Cotton Production," by J. J. Skinner. USDA
Cir. No. 726. May 1945. 26p. 1 Ag84C 726

Forestry

"Let's Talk About Timber Supplies." Forest Service. June 1945. 6p. 1 Ag86Ds
A discussion guide on the question of public regulation of timber-cutting
practices to make sure of permanent supplies of wood.

Livestock Feeding

"Avoiding Bloat on Alfalfa Pasture." New Mexico Agr. Expt. Sta. Press Bul. 1005.
June 1945. 2p. 100 N465

"Feeding and Grazing Experiments With Beef Cattle." Okla. Agr. Expt. Sta. Mimeo.
Cir. No. 136. April 1945. 28p. 100 Ok4M

"Feeding Cottonseed Products to Livestock," by N. R. Ellis and R. E. Hodgson.
USDA Farmers' Bul. 1179. Rev. May 1945. 13p. 1 Ag84F 1179

Post-War Planning

"Farmers Look at Post-War Prospects." USDA AIS-20. May 1945. 20p. 1 Ag84A i

"A Food and Nutrition Program for the Nation." National Planning Association
Pamphlet No. 46. May 1945. 35p. 280.9 N2153 46

Prairie

"The Prairie," by J. W. Weaver and T. J. Fitzpatrick. April 1934.

A reprint from Ecological Monographs containing discussion of types of
grassland, distribution of the major grasses within the several consociations,
analyses of the vegetation in the several grassland types, relative growth in
height of grasses, minor grasses and grass-like species, relative importance and
distribution of forbs.

Sheep and Goats

"Trends in the Production, Consumption, and Prices of Mohair in Texas," by T. R.
Hamilton. Tex. Agr. Expt. Sta. Progress Report No. 945. April 1945. 21p.
100 T31S

"Trends in the Sheep and Wool Industry in Texas," by T. R. Hamilton. Tex. Agr.
Expt. Sta. Progress Report No. 944. April 1945. 28p. 100 T31S

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"Grading Wool," by J. W. Christie. USDA Farmer's Bul. No. 1805. Rev. April 1945. 24p. 1 Ag84F 1805

Soils

AN AGRICULTURAL TESTAMENT, by Sir Albert Howard. Oxford University Press, 1940. 253p. 56.6 H83A

"The purpose of this book is to draw attention to the destruction of the earth's capital--the soil; to indicate some of the consequences of this; and to suggest methods by which the lost fertility can be restored and maintained." Some of the chapter headings are: The nature of soil fertility, Practical applications of the Indore process, Developments of the Indore process, Soil aeration, Some diseases of the soil, Soil fertility and national health, A criticism of present-day agricultural research.

"The Determination and Interpretation of Soil PH Values," by W. T. McGeorge. Ariz. Agr. Expt. Sta. Tech. Bul. No. 104. October 1944. 100 Ar4

SOIL AND PLANT ANALYSIS, by C. S. Piper. Interscience, 1944. 368p. 56.4 P66

The sub-title of this book is "A Laboratory Manual of Methods for the Examination of Soils and the Determination of the Inorganic Constituents of Plants." Part 1 deals with methods for the examination of soils and considers such things as the collection and preparation of soil samples, hydrogen ion concentration, mechanical analysis, single value soil constants, soil colour, calcium carbonate, for separation and analysis of the clay fraction. Part 2 deals with methods for the determination of the inorganic constituents of plants and considers collection and preparation of plant samples, methods for the ashing of plant material, the determination of the more common inorganic constituents and of the trace elements.

United Nations Conference on International Organization

"Charter of the United Nations Together with the Statute of the International Court of Justice." 58p. 1945.

United Nations Relief and Rehabilitation Administration

"UNRRA: Organization, Aims, Progress." 1945. 34p. 280.9 Un39Un

Water

"Ground Water in High Plains of Texas, Progress Report No. 5," by W. H. Alexander and J. W. Lang. Texas Board of Water Engineers, May 1945. 29p.

SOME PUBLICATIONS ON THE GEOLOGY OF THIS REGION

Arkansas

THE TERTIARY GEOLOGY OF SOUTHERN ARKANSAS, by G. D. Harris. Vol. II of the Annual report of the Geological Survey of Kansas for 1892. 207p.

PLEASE RETURN BOOKS ON TIME AND ELIMINATE OVERDUE NOTICES. WE DO NOT LIKE TO HAVE TO SEND THEM TO YOU.

Louisiana

- Geological Bulletins of the Louisiana Geological Survey. 406 L932
- No. 5 Louisiana Jackson Eocene Ostracoda. 1935.
 - No. 6 Reports on the Geology of Cameron and Vermilion Parishes. 1935.
 - No. 7 Louisiana Vicksburg Oligocene Ostracoda. 1936.
 - No. 8. Lower Mississippi River Delta: Reports on the Geology of Plaquemines and St. Bernard Parishes. 1936.
 - No. 9 Geology of Catahoula and Concordia Parishes. 1936.
 - No. 10 Geology of Grant and La Salle Parishes. 1938.
 - No. 11 Origin of the Cap Rock of Louisiana Salt Domes. 1938.
 - No. 12 Contributions to the Pleistocene History of the Florida Parishes of Louisiana. 1938.
 - No. 13 Reports on the Geology of Iberville and Ascension Parishes. 1938.

"Tertiary History of Region of Sabine Uplift, Louisiana," by C. L. Woody in Bulletin of the American Association of Petroleum Geologists, May 1931.

Oklahoma

- Oklahoma Geological Survey Bulletin No. 40. Oil and Gas in Oklahoma. 406 Ok4
- Vol. I. Partial contents: Subsurface distribution and correlation of the Pre-Chattanooga (Wilcox sand) series of northeastern Oklahoma, Subsurface stratigraphy of western Oklahoma, Pennsylvanian paleogeography, Structural trends in southern Oklahoma.
 - Vol. II. These volumes take up the various counties of Oklahoma and give location and geography, and under geology, the stratigraphy,
 - Vol. III. regional geology, structural geology, economic geology, and development of the counties.

Texas

"Exploratory Geology of a Part of Southwestern Trans-Pecos Texas," by C. L. Baker. Univ. of Tex. Bul. No. 2745. 1927. 70p. 406 T31

THE GEOLOGY OF TEXAS, by E. H. Sellards and others. Univ. of Texas.

- Vol. I. Stratigraphy. 1007p.
Part 1 of this volume deals with the Pre-Paleozoic and Paleozoic systems in Texas, Part 2 with the Mesozoic systems, Part 3 with the Cenozoic systems. Has geologic map in pocket.
- Vol. II. Structural and Economic Geology. 884p.
Part 1 of this volume deals with the structural geology of Texas east of the Pecos River, Part 2 with that of the Trans-Pecos, and Part 3 with the economic geology of Texas.
- Vol. III. Upper Paleozoic Ammonites and Fusulinids. 822p.
Part 1 deals with the upper Paleozoic ammonites, Part 2 with the Permian fusulinidae.

"Quarter-Centennial Memorial Volume of the Division of Natural Resources." Univ. of Tex. Bul. No. 3501. 1935. 298p. 406 T31

Section III on geology considers Pre-Cambrium, Paleozoic, and Mesozoic unconformities in various sections of Texas. There is also a paper entitled "The Upper Pennsylvanian and Lower Permian Section of the Colorado River Valley, Texas."

ADDITIONAL PACKETS

Forestry. This packet contains bulletins dealing with forestry from the farm forestry angle.

Personnel Efficiency. This packet contains publications about efficiency in typing, improved letter writing, supervision and training of employees, suggestions about doing one's work easily.

NOTES

Please be sure that your name and address are on requests for books. We have some requests with no names, and as we failed to note agency and location on envelope from which the requests were taken, some people will not receive the books for which they asked.

When requesting books, please do not give simply "SCS Blankton, Texas" as the name of the borrower. We need the names of the individuals who use the library for our charge records. Also we keep a list of our borrowers and a record of the number of people in each office who use the library.

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1. Usual--Two weeks; renewable upon request if not needed elsewhere.
 2. Limited--Dependent on circumstances. These may be books in unusual demand, or books borrowed on inter-library loan whose date limit is set by the lending library. Watch the date.
 3. Maximum--One month; renewable, if not needed elsewhere, for one additional month ONLY.
 4. Current periodicals--Three days per person.

REQUESTS--These need not be limited to titles listed in the NEWSLETTER. Check the BIBLIOGRAPHY OF AGRICULTURE for current material on agriculture and on related subjects. Note the bibliographies in the books and periodicals you read. If we do not have the title desired, we shall try to borrow it from another library.

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